

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: HOUGHTO-SAFE SF

Product code: 40080

Use / description of product: Supplied as a water glycol fire resistant hydraulic fluid for use in suitable industrial hydraulic systems only. The product should be used as supplied.

Company name: Houghton Plc

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ETHYLENE GLYCOL 30-50%

EINECS: 203-473-3 CAS: 107-21-1

[Xn] R22

- DI-N-BUTYLAMINE 1-10%

EINECS: 203-921-8 CAS: 111-92-2

[-] R10; [Xn] R20/21/22

- TRIMETHYLHEXANOIC ACID <1%

EINECS: 221-975-0 CAS: 3302-10-1

[Xn] R22; [Xi] R36

3. HAZARDS IDENTIFICATION

Main hazards: Harmful if swallowed.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

SAFETY DATA SHEET
HOUGHTO-SAFE SF**5. FIRE-FIGHTING MEASURES**

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Provide suitable mechanical equipment for the safe handling of drums. Handle and open container with care. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

Storage conditions: Store inside in cool ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ETHYLENE GLYCOL
TWA (8 hr exposure limit): 60 mg/m³ STEL (15 min exposure limit): 125 mg/m³ (OES)

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Green fluorescent

Odour: Mild

Evaporation rate: Negligible

Solubility in water: Soluble

Viscosity value: 22@40C

Boiling point/range°C: >100C

Vapour pressure: <Water

Relative density: 1.09@15.5C

pH: 9.2-Conc

SAFETY DATA SHEET
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Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents. Strong acids.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ETHYLENE GLYCOL

IVN RAT LD50 3260 mg/kg

ORL MUS LD50 5500 mg/kg

ORL RAT LD50 4700 mg/kg

- DI-N-BUTYLAMINE

ORL MUS LD50 290 mg/kg

ORL RAT LD50 189 mg/kg

SCU RAT LD50 494 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Unused material: The product can be burnt under controlled conditions or removed by approved waste contractors.

Used material: The product can be burnt under controlled conditions, recycled by competent companies or removed by approved waste contractors.

Disposal of packaging: IBC's have a refundable deposit paid on them and should be returned. 205 litre unlined steel drums may be returned for recycling. All other packaging should be disposed of in a manner acceptable to the authorities.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: -

Shipping name: "NOT SUBJECT TO ADR"

IMDG / IMO

UN no: -

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HOUGHTO-SAFE SF**IATA / ICAO**

UN no: -

15. REGULATORY INFORMATION**Hazard symbols:** Harmful.**Risk phrases:** R22: Harmful if swallowed.**Safety phrases:** S2: Keep out of the reach of children.

S13: Keep away from food, drink and animal feeding stuffs.

S36: Wear suitable protective clothing.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: The classification detailed on this Safety Data Sheet refer to the neat material only. Dilution of the product may reduce the classification. This safety data sheet conforms to 2001/58/EEC. Statutory Instruments: The Health and Safety at Work etc. Act 1974. Control of Substances Harzardous to Health Regulations 2002. Environment Protection Act 1990. Chemicals (Hazard Information and Packaging) Regulations 2002.

Risk phrases used in s.2: R22: Harmful if swallowed.

R10: Flammable.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R36: Irritating to eyes.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.